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FAA-04-19176-4

FOREIGN AD

 <p>SERVIÇO PÚBLICO FEDERAL</p> <p>DEPARTAMENTO DE AVIAÇÃO CIVIL</p>	<p>BRAZILIAN AIRWORTHINESS</p> <p>DIRECTIVE</p> <p>2001 SEP 30 A 10:03</p>	
	<p>EFFECTIVE DATE:</p> <p>13 February 2002</p>	<p>AD No.:</p> <p>2000-08-01R2</p>

The following Airworthiness Directive (AD), issued by the Departamento de Aviação Civil (DAC) in accordance with provisions of Chapter IV, Title III of Código Brasileiro de Aeronáutica - Law NR 7,565 dated 19 December 1986 - and Regulamento Brasileiro de Homologação Aeronáutica (RBHA) 39, applies to all aircraft registered in the Registro Aeronáutico Brasileiro. No person may operate an aircraft to which this AD applies, unless it has previously complied with the requirements established herein.

AD No. 2000-08-01R2 - EMBRAER - Amendment 39-934.

APPLICABILITY:

This Airworthiness Directive is applicable to all Embraer EMB-145() and EMB-135() aircraft models in operation.

CANCELLATION / REVISION:

This AD cancels and supersedes the AD No. 2000-08-01R1 - Amdt 39-909, dated 03 Jul 2001, and is being issued to establish a periodicity for the repetitive inspections after the replacement of all fuel pumps with a new P/N.

REASON:

It has been reported the occurrence of damage in the pins and elastomeric inserts in the hermetically sealed connectors of the electric fuel pumps on the EMB-145() and EMB-135() aircraft models. Those damages can lead to a failure in the electrical connectors, possibly due to heat generated by degraded spring-tension of the mating connector's female, which may cause arcing between poles. The damage of the pins is shown by partially blackened portions, or charring of the elastomeric insert, adjacent to and surrounding the pin.

Since this condition may occur in other airplanes of the same type and affects flight safety, an immediate corrective action is required. Thus, sufficient reason exists to request compliance with this AD in the indicated time limit.

REQUIRED ACTION:

Visual inspection on the electrical connector pins and the elastomeric inserts; replacement of the affected fuel pumps, if needed; and, application of anti-corrosion product on the electrical connectors.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Perform a visual inspection on the electrical pins and elastomeric inserts of the electric fuel pumps (RH and LH wings) for general conditions, and replace the affected pumps as necessary, as follows:

- (a) For aircraft with less than 1200 flight operating hours on 03 July 2001, the effective date of the revision 1 of this AD, before the aircraft reaches 1600 flight operating hours, and thereafter at every 1200 flight operating hours;

- (b) For aircraft which have logged from 1200 through 4000 flight operating hours on 03 July 2001, the effective date of the revision 1 of this AD, within the next 400 flight operating hours, and thereafter at every 1200 flight operating hours;
- (c) For aircraft with more than 4000 flight operating hours on 03 July 2001, the effective date of the revision 1 of this AD, before the aircraft reaches 4400 flight operating hours, or in the next 50 flight operating hours, whichever occurs later, and thereafter at every 1200 flight operating hours; and,
- (d) For aircraft that have already replaced all fuel pumps P/N 2C7-1 with fuel pumps P/N 2C7-4, at every 8000 flight operating hours.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletin No. 145-28-0013, original issue, or further revisions approved by the CTA.

Record compliance with this AD in the applicable maintenance log book.

CONTACT:

For additional technical information, contact:

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APPROVAL:

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NOTE: Original in Portuguese language signed and available in the files of the Registro Geral de Aeronavegabilidade (RGA/TE-1/STE) of the Departamento de Aviação Civil.